

----- 10/12/05 10/772,726

FILE 'HCAPLUS' ENTERED AT 15:37:44 ON 12 OCT 2005

L1 375 SEA ABB=ON PLU=ON METAMER?  
L2 56 SEA ABB=ON PLU=ON L1 AND LIGHT#####  
L3 78 SEA ABB=ON PLU=ON L1 AND (PRINT##### OR MARK##### OR  
INDIC#####)  
L4 23 SEA ABB=ON PLU=ON L1 AND CONDITIONS  
L5 130 SEA ABB=ON PLU=ON L1 AND DIFFER#####  
L6 10 SEA ABB=ON PLU=ON L1 AND ANOTHER  
L7 14 SEA ABB=ON PLU=ON L1 AND ALTERNAT####  
L8 47 SEA ABB=ON PLU=ON L1 AND ADDITION#####  
L9 54 SEA ABB=ON PLU=ON L1 AND CHANG#####  
L10 169 SEA ABB=ON PLU=ON L1 AND (TWO OR 2 OR SECOND OR 2ND)  
L11 57 SEA ABB=ON PLU=ON L1 AND APPEAR#####  
L12 25 SEA ABB=ON PLU=ON L1 AND (ILLUMINAT##### OR LAMBDA OR  
WAVELENGTH OR FREQUENCY)  
L13 13 SEA ABB=ON PLU=ON (L2 OR L12) AND L3 AND (L4 OR L5 OR L6 OR  
L7 OR L8 OR L9 OR L10 OR L11)  
L14 12 SEA ABB=ON PLU=ON (L2 OR L12) AND PAPER####  
L15 0 SEA ABB=ON PLU=ON (L2 OR L12) AND SHEET####  
L16 2 SEA ABB=ON PLU=ON (L2 OR L12) AND SUBSTRAT#####  
L17 35 SEA ABB=ON PLU=ON (L2 OR L12) AND (REFLECT##### OR VIEW#####  
OR APPEAR##### OR SIGHT#### OR SEE OR SEEING OR SEEN OR EYE  
OR OPTIC#####)  
L18 9 SEA ABB=ON PLU=ON L13 AND (L14 OR L15 OR L16 OR L17)  
L19 0 SEA ABB=ON PLU=ON L13 AND (?TAMPER? OR ?FORG?)  
L20 2 SEA ABB=ON PLU=ON L1 AND (?TAMPER? OR ?FORG?)  
L21 11 SEA ABB=ON PLU=ON L1 AND ?COPY?  
L22 1 SEA ABB=ON PLU=ON L1 AND ?COPIE?  
L23 24 SEA ABB=ON PLU=ON L13 OR L18 OR (L20 OR L21 OR L22)  
L24 16 SEA ABB=ON PLU=ON (L4 OR L5 OR L6 OR L7 OR L8 OR L9) AND L23  
  
L25 10 SEA ABB=ON PLU=ON L10 AND L23  
L26 2 SEA ABB=ON PLU=ON L11 AND L23  
L27 94 SEA ABB=ON PLU=ON (L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR  
L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR  
L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26)  
AND ?COLOR?  
L28 3 SEA ABB=ON PLU=ON (L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR  
L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR  
L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26)  
AND ?COLOUR?  
L29 7 SEA ABB=ON PLU=ON (L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR  
L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR  
L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26)  
AND HUE####  
L30 0 SEA ABB=ON PLU=ON (L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR  
L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR  
L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26)  
AND TIMT#####  
L31 1 SEA ABB=ON PLU=ON L23 AND (L28 OR L29)  
L32 7 SEA ABB=ON PLU=ON L10 AND (L28 OR L29)  
L33 49 SEA ABB=ON PLU=ON L6 OR (L13 OR L14 OR L15 OR L16) OR (L18  
OR L19 OR L20 OR L21 OR L22) OR (L24 OR L25 OR L26) OR (L28 OR  
L29 OR L30 OR L31 OR L32)  
L34 6 SEA ABB=ON PLU=ON L33 AND ?PRINT?  
D ALL TOT  
L35 5 SEA ABB=ON PLU=ON MARK##### AND L33  
L36 5 SEA ABB=ON PLU=ON L35 NOT L34  
D ALL TOT

FILE 'STNGUIDE' ENTERED AT 15:48:42 ON 12 OCT 2005

FILE 'HCAPLUS' ENTERED AT 15:49:37 ON 12 OCT 2005

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L37 3 SEA ABB=ON PLU=ON (L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR  
L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR  
L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR  
L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) AND DOCUMENT

FILE 'HCAPLUS' ENTERED AT 15:49:42 ON 12 OCT 2005

L38 22 SEA ABB=ON PLU=ON (L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR  
L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR  
L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR  
L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) AND PAPER

FILE 'HCAPLUS' ENTERED AT 15:49:48 ON 12 OCT 2005

L39 5 SEA ABB=ON PLU=ON (L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR  
L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR  
L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR  
L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) AND SUBSTRATE

L40 25 SEA ABB=ON PLU=ON (L37 OR L38 OR L39) NOT (L35 OR L34)

L41 8 SEA ABB=ON PLU=ON L40 AND (CONDITIONS OR INTENSITIES OR  
CHANG##### OR BRIGHTNESS OR BRIGHTER OR BRIGHTEST)  
D ALL HITSTR TOT

L42 109 SEA ABB=ON PLU=ON L1 AND (COMPAR##### OR MEASUR##### OR  
METER#### OR PHOTOMET? OR LIGHT###(2A)METER##### OR LIGHTMETER?  
)

L43 94 SEA ABB=ON PLU=ON (L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR L9 OR  
L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18 OR  
L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR L27 OR  
L28 OR L29 OR L30 OR L31 OR L32 OR L33) AND L42

L44 85 SEA ABB=ON PLU=ON L43 NOT (L41 OR L35 OR L34)

L45 49 SEA ABB=ON PLU=ON L44 AND L10

L46 14 SEA ABB=ON PLU=ON L45 AND (?PRINT? OR ?INDIC? OR MARK#####)  
D ALL TOT

----- 10/12/05

L34 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2001:738375 HCAPLUS  
DN 135:305324  
ED Entered STN: 10 Oct 2001  
TI **Tamper-proof printed** document using **metameric**  
pair inks  
IN Uchimura, Hiromi; Tanaka, Toshinori; Uchida, Michiharu  
PA Ministry of Finance, Printing Bureau, Japan  
SO Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese  
IC ICM C09D011-00  
ICS B41M003-14; B42D015-10  
CC 42-12 (Coatings, Inks, and Related Products)  
Section cross-reference(s): 74

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001279140	A2	20011010	JP 2000-93237	20000330
PRAI	JP 2000-93237		20000330		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2001279140	ICM	C09D011-00
	ICS	B41M003-14; B42D015-10

AB The invention relates to a **tamper-proof printed**  
document, e.g., currencies, passports, securities, identification cards  
and admission tickets, wherein the information is recorded with  
**metameric** pair inks.